NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-C1 Date: 29-01-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**2850 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.16 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.65 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **4th Cross Road From 1st Main Road to Dead End**

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For Newzen Consultants Bangalore
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Name of Work

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NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-PCC1 **Date: 29-01-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.70	0 -20	30- 70
10mm	29.25	0 -5	10- 35
4.75mm	3.90	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.65	60-95	75-100	85-100	
01.18	73.15	30-70	55-90	75-100	
600.mic	46.25	15-34	35-59	60-79	
300.mic	24.90	5-20	8-30	12-40	
150.mic	6.70	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **4th Cross Road From 1st Main Road to Dead End**

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Name of Work: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.

NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-C2 **Date: 01-02-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**163 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.19 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.05 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.74 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **Cross road-1 from 3rd Cross to Dead End**

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NEW TECHNOLOGIES TO INNOVATE

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NC/QC/BD/2020-21/W5-DD-PCC2

Date: 01-02-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.30	0 -20	30- 70
10mm	28.85	0 -5	10- 35
4.75mm	3.55	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.10	60-95	75-100	85-100	
01.18	74.50	30-70	55-90	75-100	
600.mic	46.25	15-34	35-59	60-79	
300.mic	23.80	5-20	8-30	12-40	
150.mic	7.45	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **Cross road-1 from 3rd Cross to Dead End**

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NC/QC/BD/2020-21/W5-DD-CE1 **Date: 02-02-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**155min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.04 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.16 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.34 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **Doddamma Devi Temple Opposite Road**

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NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-FA1 Date: 02-02-2021

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Umesh. N, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.15**	60-95	75-100	85-100	
01.18	**71.25**	30-70	55-90	75-100	
600. mic	**45.80**	15.34	35-59	60-79	
300.mic	**23.10**	5-20	8-30	12-40	
150.mic	**6.90**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**18.36 %**	-----
2	Silt Content	----	**0.56%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : **Doddamma Devi Temple Opposite Road**

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NC/QC/BD/2020-21/W5-DD-CA1 **Date: 02-02-2021**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Umesh. N, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**96.55**	85-100	90 - 100
10 mm	**43.90**	0 - 20	25 - 55
4.75 mm	**3.65**	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**26.54 %**	Not to exceed 25 %
2.	Crushing value	**28.13 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : **Doddamma Devi Temple Opposite Road**

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NC/QC/BD/2020-21/W5-DD-S1 **Date: 02-02-2021**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12mm **TMT Steel.**
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.621**	0.567	**0.893**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**546.0**	500.0	**542.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.40**	12.00	**21.20**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**645.0**	545.0	**638.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **Doddamma Devi Temple Opposite Road**

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NC/QC/BD/2020-21/W5-DD-CB1 Date: 11-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-02-21	11-02-21	07	22500	375	16.67	**16.74**
	002	‘’	“	‘’	“	385	17.11	
	003	‘’	“	‘’	“	370	16.44	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **Doddamma Devi Temple Main Road From Ashwathkatte**

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NEWZEN CONSULTANT Bangalore

NC/QC/BD/2020-21/W5-DD-CB2 **Date: 12-02-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
Ref.: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-02-21	12-02-21	07	22500	370	16.44	**16.67**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **Cross Road-1 From 2nd B Cross**

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